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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/834,901	04/16/2001	Young-Hyun Kang	P56352	5378
Robert E. Bush	7590 01/29/2007 mell	EXAM	EXAMINER	
1522 K Street,	N.W., Suite 300	REFAI, R	REFAI, RAMSEY	
Washington, DC 20005-1202			ART UNIT	PAPER NUMBER
			2152	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Appli	cation No.	Applicant(s)		
Office Action Summary		09/83	34,901	KANG, YOUNG-HYUN		
		Exam	iner	Art Unit		
		Rams	ey Refai	2152		
Period fo	The MAILING DATE of this commun	nication appears of	the cover sheet with the	correspondence address		
A SHOWHIC - Externafter - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAINTENANCE IS LONGER, FROM THE MAINTENANCE IS LONGER, FROM THE MAINTENANCE IS LONGER IN THE MAINTENANCE IN THE MAINTENANCE IS LONGER IN THE MAINTENANCE IN THE MAINTENANCE IS LONGER IN THE MAINTENANCE IN THE	MAILING DATE OF s of 37 CFR 1.136(a). In munication. tatutory period will apply a will, by statute, cause the	THIS COMMUNICATIOn one event, however, may a reply be timed will expire SIX (6) MONTHS from a application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status						
2a) <u></u> □	Responsive to communication(s) filed on <u>30 October 2006</u> .  2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
4)  Claim(s) 1-14 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-14 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers					
10)	The specification is objected to by the drawing(s) filed on is/are Applicant may not request that any objected the country sheet(s) including the oath or declaration is objected the specific stress of the country sheet of the country	e: a) accepted of accepted of accepted of accepted of accepted of accepted of accepted on the accepted of accepted	g(s) be held in abeyance. Se equired if the drawing(s) is ol	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority (	under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice 3) Infor	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review ( mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		4) Interview Summar Paper No(s)/Mail [ 5) Notice of Informal 6) Other:	Date		

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## DETAILED ACTION

In view of the Appeal Brief filed on October 30, 2006, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing

below:

1. Claims 1-14 remain presented for examination.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harris (US Patent No. 5,946,373) in view of Davis et al (US Patent No. 6,826,157).

4. As per claim 1, Harris teaches a method for managing alarm information in a network management system, comprising the steps of:

receiving alarm information generated from any of a plurality of network elements (column 1, lines 9-30);

determining whether or not said alarm information corresponds to an alarm (column 4, lines 3-15, column 1, lines 17-30; recognizes alarm from message);

determining the location of the network element generating the alarm information, when it is determined that the alarm information corresponds to an alarm (column 2, lines 25-57; detects and locates faults from alarm data);

searching a database to determine whether said database already has said alarm information stored therein, according to the location of the network element generating the alarm information (column 4, lines 15-29, column 11, lines 8-20);

storing said alarm information when it is determined that said database does not have said alarm information already stored therein (column 4, lines 25-29; adding new alarms);

increasing a count value representing a number of times in which the same alarm information has been generated, without redundantly storing said alarm information into said database, when it is determined that said alarm information is already stored in said database (column 8, lines 7-35, column 11, lines 8-20; alarm counter incremented); and

storing the increased count value at a position corresponding to said alarm information already stored in said database (column 8 lines 8-35).

Harris teaches alarms such as loss of signal (fig 2C, column 6, lines 55-67) but fails to teach that the alarm is a logical alarm. However, Davis et al teach maintaining an error counter for tracking the number of errors detected at network layers such as the data link layer (column 8, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the

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applicant's invention to combine Harris and Davis et al cause doing so would create a method for managing alarm information into a database of errors from a specific network layer.

- 5. As per claim 2, Harris teaches wherein the step of searching said database further comprises the steps of analyzing said alarm information to detect its positional value and event type; and determining whether said database has the alarm information of the same positional value and event type (column 4, lines 4-29, column 5, lines 37-60).
- 6. As per claim 3, Harris teaches wherein the step of searching said database further comprises the steps of:

detecting the positional value of said alarm information from its data format (column 4, line 6); and identifying destination information by analyzing a virtual path identifier and a virtual channel identifier of subscriber connection information corresponding to the alarm location to determine an identity of a subscriber from which said alarm information was generated (column 5, lines 37-60).

- 7. As per claim 4, Harris teaches a step of parsing said alarm information for storage into said database when it is determined that the alarm information does not correspond to a logical alarm (column 4, lines 3-15, fig 2A).
- 8. As per claim 5, Harris teaches wherein said database comprises a plurality of network element tables, each corresponding to a respective one of said network elements, said step of storing further comprising storing said alarm information into the corresponding network element table of said database according to the location of the network element (column 5, lines 3-60, column 4, lines 49-55).
- 9. As per claim 6, Harris teaches a step of converting the alarm information through a database application interface into a database data format of said database to be recorded as

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new alarm information in the network element table of the network element generating the alarm information (column 4, lines 3-30, column 5, lines 38-60).

- 10. As per claim 7, Harris teaches displaying said alarm information stored in said database; (column 1, lines 9-18, column 2, line 66-column 3, line 10;) but fails to explicitly teach entering search parameters for finding a particular error corresponding to the alarm information or for finding a particular network element and its corresponding alarm information; and displaying information retrieved as a result of said step of entering search parameters. However, it would have been obvious to one of the ordinary skill in the art to include a feature that allows a user to search a database using search parameters and to display the requested data because doing so would allow a user the ability to locate specific information in the database such as specific network error information in order to locate and correct the problem,
- 11. As per claims 8-14, these claims contain similar limitations as claims 1-7 above, therefore are rejected under the same rationale.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure are cited in the Notice of Reference Cited form (PTO-892).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramsey Refai whose telephone number is (571) 272-3975. The examiner can normally be reached on M-F 8:30 - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ramsey Refai Examiner Art Unit 2152 January 19, 2007

BUŃJOB JÁROENCHONWANIT SUPERVISORY PATENT EXAMINER

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